



Bachelor of Science in Construction Engineering

Recommended 4-Year Course Sequence
2024-2025 Catalog



SUMMER

Summer I					Summer II				
HCC	UT Tyler	Title	HCC	UTT	HCC	UT Tyler	Title	HEC	UTT
CHEM 1311		General Chemistry I (lecture)	3						
CHEM 1111		General Chemistry I (lab)	1						
			4	0					

FRESHMAN YEAR

Fall					Spring				
HCC	UT Tyler	Title	HCC	UTT	HCC	UT Tyler	Title	HEC	UTT
ENGR 1201		Introduction to Engineering	2		ENGR 1304	ENGR 1204	Engineering Graphics I	3	
ENGL 1301		College Composition I	3		MATH 2414		Calculus II	4	
MATH 2413		Calculus I	4		ACCT 2301		Principles of Financial Accounting	3	
CHEM 1412/1112 or MATH 2415		General Chemistry II (Lecture & Lab) or Calculus III	4		PHYS 2325/2125		University Physics I (Lecture & Lab)	4	
HIST 1301		United States History I	3		ENGL 2311	ENGL 1302	College Composition II	3	
			16	0		ENGR 1000	Thriving in Engineering	17	0

SOPHOMORE YEAR

Fall					Spring				
HCC	UT Tyler	Title	HCC	UTT	HCC	UT Tyler	Title	HCC	UTT
PHYS 2326		University Physics II (Lecture)	3		ENGR 2332	CENG 3306	Mechanics of Materials	3	
PHYS 2126		University Physics II (Lab)	1		GOVT 2305	POLS 2305	Federal Government	3	
ECON 2301 (or ECON 2302)		Principles of Macroeconomic (Principles of Microeconomics)	3		GEOG 1403	GEOG 3310	Physical Geology	4	
ENGR 2301		Engineering Mechanics: Statics	3			MATH 3351	Probability and Statistics for Engineers and Scientist	3	
ENGR 2304		Programming for Engineers	3		PHIL 2306		Intro to Ethics	3	
	CENG 2336	Geomatics		3					
			13	3				13	3

JUNIOR YEAR

Fall					Spring				
HCC	UT Tyler	Title	HCC	UTT	HCC	UT Tyler	Title	HCC	UTT
	CONE 3301	Introduction to Thermo Fluid Sciences		3	SPCH 1315	CMST 1315	Introduction to Public Speaking	3	
	CMGT 3104	Graphical Tools for Design and Modeling of Infrastructure		1		CMGT 3348	Construction Safety		3
	CENG 3434	Civil Engineering Materials, Codes, and		4		CMGT 4335	Construction Law and Ethics		3
	CMGT 3365	Mechanical, Electrical, and Plumbing Systems		3		CENG 3336	Soil Mechanics and Foundation Design		3
	CENG 4339	Civil Engineering Construction Management		3		CENG 3325	Structural Analysis		3
Various		Creative Arts (3 hrs.)	3						
			3	14				3	12

SENIOR YEAR

Fall					Spring				
HCC	UT Tyler	Title	HCC	UTT	HCC	UT Tyler	Title	HCC	UTT
GOVT 2306	POLS 2306	Introductory Texas Politics	3			CONE 43XX	Enrichment Elective (4370, 4395, or 4399)		3
	CENG 4412	Reinforced Concrete and Steel Design		4	HIST 1302	HIST 1303	U.S. History II	3	
	CENG 4351	Traffic Engineering: Operations and Control		3		CONE 4315	Senior Design II		3
	CONE 4325	Horizontal & Vertical Construction Techniques		3		CENG 4341	Leadership, Professionalism, and Public Policy		3
	CONE 4115	Senior Design I		1		Various	CONE Approved Technical Electives		3
			3	11				3	12

Total Credit Hours at Houston Community College 75
Total Credit Hours at UT Tyler 55
Total Credit Hours 130

Other LD courses (CORE) may either be taken at HCC or through on-line section enrollment with the MAIN Campus